



**Chairperson:** <sup>(b) (6)</sup>

**Facilitator:** <sup>(b) (6)</sup>

***Commander's Environmental Management Review Board (CEMRB)***

***23 December 2014***

***Updated 29 December 2014***



# ***Agenda***

- Environmental Management Systems (EMS)
- MCIPAC Environmental Policy Statement
- Status of FY14 Objectives and Targets
- FY15 Proposed Objectives and Targets (MCB Camp S. D. Butler)
- Environmental Compliance Evaluation (ECE) Status
- Environmental Awards
- How Commanders Can Help



# ***Environmental Management System (EMS)***

- EMS is required by Executive Order and Marine Corps Order
- MCIPAC EMS
  - MCIPACO 5090.1 EMS
  - MCIPAC Environmental Policy Statement
  - MCIPAC EMS Core Team
  - Annual Management Review (CEMRB)
- Installation-Level EMS (Butler, Iwakuni, Fuji, Mujuk, Hawaii)
  - Risk Ranking
  - Objectives and Targets
  - Operational Controls (SOPs, etc)
  - Checking and Corrective Action (ECEs)
  - Cross Functional Teams



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**MCIPAC**

# Environmental Policy Statement

- Annual review required by Marine Corps Order
- Reviewed by Core Teams
- Recommend no changes at this time



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**MARINE CORPS INSTALLATIONS PACIFIC ENVIRONMENTAL POLICY**

The natural environment is a key asset to the mission of Marine Corps Installations Pacific (MCIPAC). MCIPAC's policy is to enhance the Marine Corps by incorporating environmental compliance, efficient natural resources management practices and the interests of the local community into mission execution. To this end, we will always strive to protect and preserve the land, water, air, and cultural resources within our cognizance by doing the following:

- Complying with all applicable environmental legislation, Final Governing Standards, regulations and policy
- Implementing pollution prevention through source reduction and recycling
- Conserving natural resources and preserving cultural resources
- Implementing sustainability initiatives
- Minimizing risk to mission
- Conducting appropriate review of potential environmental impacts of all Federal actions

Operational readiness is the hallmark of the Marine Corps and environmental compliance is the key to sustaining and enhancing mission readiness and access to training environments. MCIPAC is committed to promoting responsible stewardship while continually improving environmental performance through an effective and efficient Environmental Management System (EMS).

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EMS-01.6

Sep 2013



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**米海兵隊太平洋基地 (MCIPAC) 環境方針**

米海兵隊太平洋基地の任務において、自然環境は重要な財産です。米海兵隊太平洋基地の環境方針は、環境保護法規の遵守、自然環境の効率的な管理、及び地域社会の関心を海兵隊の任務遂行に統合していくことにより、海兵隊を強化することを目的としています。そして、以下のような方針を実行することにより、海兵隊施設内の土地、水、大気、文化財等の資源を保護及び保全していくことに常に努めることを基本理念としています。

- 該当する環境保護法規、環境管理基準（日本国内ではJISGが該当）、規則及び方針を順守します。
- 排出口削減とリサイクルを通じて、汚染防止を実行します。
- 自然環境の保全と文化財の保護に努めます。
- 持続可能性を高めるための取り組みを実施します。
- 環境への負荷を減らすことで、任務に与える影響を最小限にします。
- 連邦政府の活動から派生すると考えられる環境負荷に対し、適切な検討を行います。

作戦即応能力は海兵隊の真髄であり、その即応能力及び訓練環境の維持・向上を図るために環境保護法規を遵守していくことは重要で、米海兵隊太平洋基地は、責務を果たすと同時に、効果的かつ効率的な環境マネジメントシステム（EMS）を通じて環境負荷の継続的な軽減に取り組むことを約束します。

Semper Fidelis.  
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**미해병대 태평양기지사령부 환경정책 성명서**

자연환경은 미해병대 태평양기지사령부 (MCIPAC) 의 임무에 부여된 중요한 자산입니다. 미해병대 태평양기지사령부는 전통적이고, 효율적인 자연자원 관리 및 지역사회의 관심사항을 임무수행 항목에 포함시켜 실천해 나갈으로써 해병대를 더욱 강화시켜 나갈 것입니다. 이를 위해, 우리는 우리 분할 지역내의 토지, 물, 대기 및 문화적 자원과 보호와 보존을 추구하기 위해 다음과 같은 사항을 시행해 나갈 것입니다.

- 환경관련 법률, 정부 및 기존 규정과 정책을 준수
- 자원 절약 및 재활용을 통해 환경오염 예방을 실현
- 자연자원을 보호하고 문화유산을 보존
- 지속가능한 발전수행을 실현
- 임무 수행의 위험성을 최소화
- 모든 연방조직들이 환경에 미칠 영향에 대하여 적절한 검토를 시행

해병대의 위상은 작전태세 관리와 환경규제 준수로 입증되고, 이는 임무태세 유지 및 증가와 훈련작전에 참여가 중요한 핵심입니다. 미해병대 태평양기지사령부는 효과적이고 효율적인 환경관리시스템(EMS)을 통하여 환경에 대한 업무를 추진시킴으로써 환경에 대한 의무를 완수합니다.

Semper Fidelis,  
(b) (6)

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# MCB Butler Status




## FY14 EMS Objectives & Targets

Objectives	Targets	Status
1. Reduce the impact of solid waste generation	Divert 68% of non-hazardous solid waste from the waste stream in FY14	Surpassed DoD target (50%). Diverted 55%
2. Reduce electricity use in buildings	Reduce energy intensity of facilities by 37.5% by FY20 using FY03 as baseline (FY14 Target: 3% reduction from FY13)	In progress. Reduced by 0.5% from FY13. Reduced 4.35% since FY03. ECD: FY20 
3. Reduce vehicle fuel consumption and air emissions	Reduce use of petroleum products by vehicle fleets by 30% by FY20 using 2005 as baseline (FY14 Target: 2% from FY13)	Surpassed Butler and DoD targets. Reduced fuel by 30.7% since 2005 
4. Reduce hazardous waste disposal	Reduce contaminated absorbent (consorb) waste disposal by 5% in FY14	Surpassed target. Achieved 18.5% reduction and \$14K in disposal cost savings 
5. Integrate radon data into GIS	Integrate radon data into Geographic Information System (GIS) in FY14	Target hit 



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# ***MCB Hawaii Status FY14 EMS Objectives & Targets***

Objectives	Targets	Status
1. Reduce Water Consumption	Restore the effluent irrigation system for the golf course to eliminate the use of potable water by 2014	Target hit 
2. Increase Diversion of Solid Waste	Increase the amount of reconditioned Hawker vehicle batteries ready for reuse due to electrical upgrades made at HAZMIN Center in 2013	Target hit 
3. Increase use of plug-in hybrid (PIH) vehicles	Replace 34 GME to PIH vehicles.	Target hit 

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# ***MCAS Iwakuni Status FY14 EMS Objectives & Targets***





Objectives	Targets	Status
1. Investigate methods to extend the review and signing of the Spill Prevention & Response Plan	Make pen and ink changes to the Spill Prevention & Response Plan with reviews made by the Facilities Engineering office	Target hit 
2. Provide spill containment North retention pond	Stage equipment, install retaining berms, flow gates, and/or tide risers in North Pond	Retention has been broken down into two phases. Interim spill protection and construction of permanent solutions ECD: Phase I March FY15 Phase II Fall FY 16 
3. Rejuvenate EMS Program	Ensure compliance with 17 elements of EMS	Work in progress. About half of the 17 elements have been redrafted and are current. ECD: September FY15 





# CATC Camp Fuji Status

## FY14 EMS Objectives & Targets

Objectives	Targets	Status
1. Reduce the impact of solid waste generation	Divert 50% of non-hazardous solid waste from the waste stream by FY15 (FY14 Target: 20%)	Surpassed Fuji and DoD targets. Diverted 79%. 
2. Reduce electricity use	Reduce energy intensity of facilities by 37.5% by FY20 using FY03 as baseline (FY14 Target: 3% reduction from FY13)	Work in progress. Increased 0.31% due to harsh winter, increase in training units. ECD: FY20 
3. Reduce vehicle fuel consumption and air emissions	Reduce use of petroleum products by vehicle fleets by 20% by FY20 using 2011 as baseline (FY14 Target 3% from FY13)	Target hit Greenline now available at Fuji 
4. Reduce impact of leaks and spills from vehicle operations	Reinforce and inspect procedures requiring spill kits in all government vehicles and notify the incoming Marines how to respond to spills and handle the hazardous waste	Target hit 










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# *Camp Mujuk Status*

## *FY14 EMS Objectives & Targets*

Objectives	Targets	Status
1. Improve EMS Procedures	Develop new EMS Procedures (ex. Turnover folder)	Target hit 
	Conduct annual review of PAI inventory & risk ranking	Target hit 
	Perform annual Self-EMS & ECE Audit	Target hit 
2. Improve Plans for Environmental Compliance	Develop Slug Prevention Plan	Work in progress. ECD: Jul 15 
	Develop Hazardous Waste Management Plan	Target hit. MCIPAC drafted plan 

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# ***MCB Butler (Proposed)***

## ***FY15 EMS Objectives & Targets***

Objectives	Targets
1. Reduce the impact of solid waste generation	Divert 55% of non-hazardous solid waste from the waste stream in FY15
2. Reduce electricity use in buildings	Implement the Unit Energy Manager program in FY15
3. Ensure proper management of hazardous material (HM) and hazardous waste (HW)	Ensure the Joint Environmental Material Management Service (JEMMS) contractor is in compliance with applicable Environmental and Safety requirements

Note: MCAS Futenma will establish their own objectives and target in FY15.  
Utilities Conservation and Appraisable Board will be conducted with CEMRB in FY16.



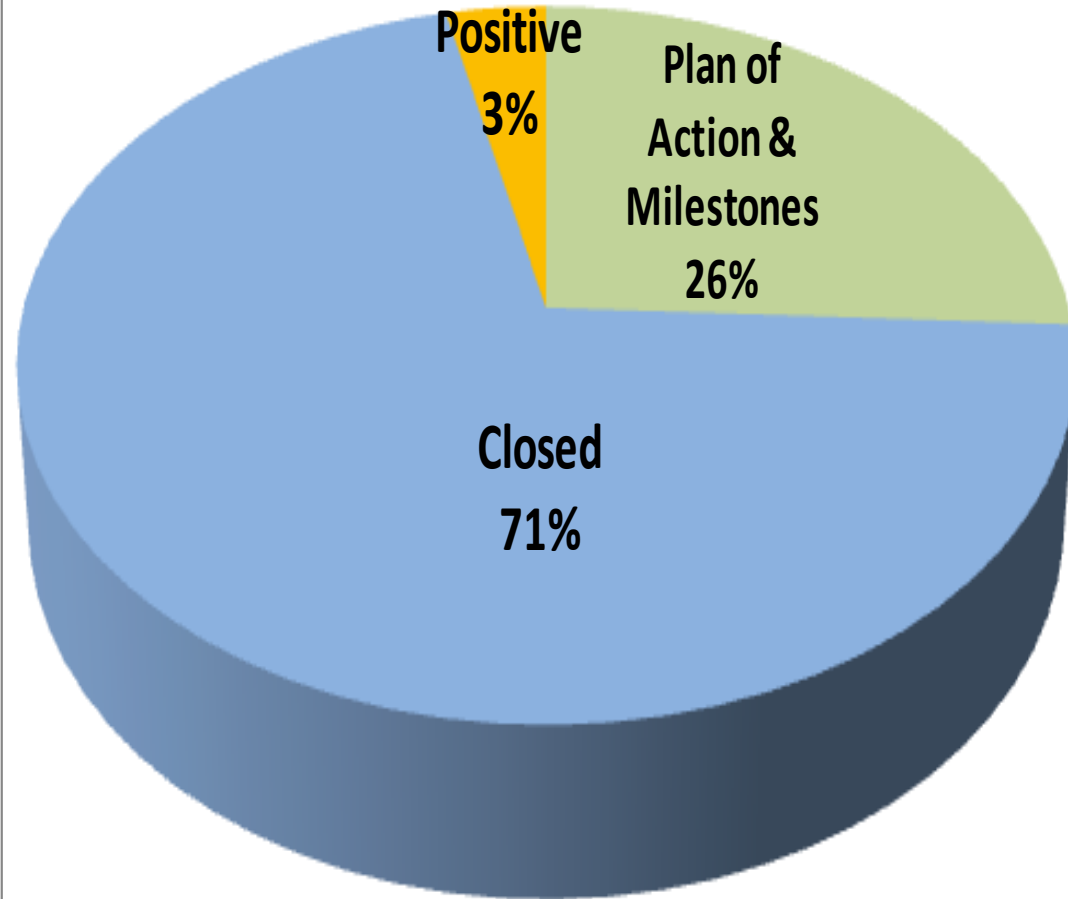
# ***Environmental Compliance Evaluations***

- Purpose of the ECE: Assess environmental compliance status and recommend appropriate corrective/preventive actions or improvements
- Benchmark ECE conducted by MCICOM on 3-year cycle
  - Camp Butler/MCAS Futenma: 2013/2016
  - Camp Mujuk: 2013/2016
  - MCB Hawaii: 2013/2016
  - CATC Camp Fuji: 2014/2017
  - MCAS Iwakuni: 2014/2017
- Self-ECEs are conducted in years when Benchmark is not



# ***MCIPAC Environmental Compliance Evaluations Status of FY 13/14 Benchmark Findings***

<b>ECE FINDINGS</b>	
<b>Status</b>	<b>Qty</b>
<b>Closed</b>	258
<b>POA&amp;M</b>	94
<b>Positive</b>	13





# ***FY13 ECE Results:***

## ***MCB Butler***

<b>Program</b>	<b>Class I</b>	<b>Class II</b>	<b>Class III</b>	<b>Mgmt Practice</b>	<b>Positive</b>	<b>Total</b>
Hazardous Waste	11	0	14	6	0	<b>31</b>
Waste Water	6	0	5	1	0	<b>12</b>
POL	7	0	0	3	1	<b>11</b>
Hazardous Materials	6	0	3	1	0	<b>10</b>
Air Emissions	2	0	4	2	0	<b>8</b>
Pesticide Mgmt	1	0	3	2	2	<b>8</b>
Solid Waste	2	0	1	5	0	<b>8</b>
Storage Tank	4	0	0	3	0	<b>7</b>
Radon	0	0	3	1	0	<b>4</b>
EMS	0	0	1	2	0	<b>3</b>
Water Quality	2	0	1	0	0	<b>3</b>
NEPA	0	0	0	1	1	<b>2</b>
Cultural Resources	0	0	0	1	0	<b>1</b>
Natural Resources	0	0	0	1	0	<b>1</b>
Program Mgmt	0	0	1	0	0	<b>1</b>
Waste Munitions	0	0	1	0	0	<b>1</b>
PCB Mgmt	0	0	1	0	0	<b>1</b>
Asbestos Mgmt	0	0	1	0	0	<b>1</b>
LBP Mgmt	0	0	0	1	0	<b>1</b>
<b>Total Findings</b>	<b>41</b>	<b>0</b>	<b>39</b>	<b>30</b>	<b>4</b>	<b>114</b>

*Compare FY09  
130 Total findings  
120 Class 1*



# ***FY14 ECE Results: MCAS Iwakuni***

Program	Class I	Class II	Class III	Mgmt Practice	Positive	Total
Hazardous Waste	1	0	14	1	0	16
Solid Waste	7	0	4	5	0	16
EMS	0	0	8	1	0	9
POL	2	1	1	3	2	9
Hazardous Materials	6	0	1	1	0	8
Pollution Prevention	0	2	1	0	0	3
Pesticide Mgmt	3	0	0	0	0	3
Waste Water	2	1	0	0	0	3
Air Emissions	1	0	1	0	0	2
PCB Mgmt	0	0	1	1	0	2
Radon	0	0	0	2	0	2
Water Quality	0	0	1	1	0	2
Program Mgmt	0	0	0	1	0	1
<b>Total Findings</b>	<b>22</b>	<b>4</b>	<b>32</b>	<b>16</b>	<b>2</b>	<b>76</b>

*Compare FY10  
76 Total findings  
37 Class 1*



# ***FY14 ECE Results: CATC Camp Fuji***

Program	Class I	Class II	Class III	Mgmt Practice	Positive	Total
Hazardous Waste	5	1	4	2	0	12
EMS	0	0	6	0	0	6
Waste Munitions	0	0	5	1	0	6
POL	3	0	0	2	0	5
Solid Waste	3	0	0	1	0	4
Pollution Prevention	0	0	1	2	0	3
Program Mgmt	0	0	0	2	0	2
Storage Tank	1	0	0	1	0	2
Water Quality	1	0	0	1	0	2
Air Emissions	0	0	1	0	0	1
Cultural Resources	0	0	0	1	0	1
Hazardous Materials	0	0	0	0	1	1
Pesticide Mgmt	1	0	0	0	0	1
Wastewater	1	0	0	0	0	1
<b>Total Findings</b>	<b>15</b>	<b>1</b>	<b>17</b>	<b>13</b>	<b>1</b>	<b>47</b>

*Compare FY09  
38 Total findings  
25 Class 1*





# ***FY13 ECE Results:***

## ***Camp Mujuk***

<b>Program</b>	<b>Class I</b>	<b>Class II</b>	<b>Class III</b>	<b>Mgmt Practice</b>	<b>Positive</b>	<b>Total</b>
Hazardous Waste	3	0	1	4	0	<b>8</b>
Water Quality	5	0	0	1	0	<b>6</b>
POL	5	0	0	0	0	<b>5</b>
Waste Water	4	0	0	1	0	<b>5</b>
Pesticide Mgmt	2	0	1	1	0	<b>4</b>
Solid Waste	3	0	0	1	0	<b>4</b>
Hazardous Materials	1	0	1	1	0	<b>3</b>
Program Mgmt	0	0	3	0	0	<b>3</b>
Cultural Resources	1	0	0	0	0	<b>1</b>
EMS	0	0	1	0	0	<b>1</b>
Natural Resources	1	0	0	0	0	<b>1</b>
Pollution Prevention	0	0	1	0	0	<b>1</b>
Storage Tank	0	0	0	1	0	<b>1</b>
PCB Mgmt	1	0	0	0	0	<b>1</b>
Asbestos Mgmt	1	0	0	0	0	<b>1</b>
<b>Total Findings</b>	<b>27</b>	<b>0</b>	<b>8</b>	<b>10</b>	<b>0</b>	<b>45</b>

*Compare FY09  
60 Total findings  
21 Class 1*



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# ***FY13 ECE Results: MCB Hawaii***

<b>Program</b>	<b>Class I</b>	<b>Class II</b>	<b>Class III</b>	<b>Mgmt Practice</b>	<b>Positive</b>	<b>Total</b>
Hazardous Materials	4	0	10	3	0	<b>17</b>
Hazardous Waste	5	0	7	1	1	<b>14</b>
Solid Waste	7	0	3	0	1	<b>11</b>
EMS	0	0	3	5	0	<b>8</b>
POL	5	0	0	2	0	<b>7</b>
Cultural Resources	1	0	3	0	1	<b>5</b>
Pesticide Mgmt	0	0	4	0	0	<b>4</b>
Wastewater	3	0	0	0	0	<b>3</b>
Water Quality	2	0	0	1	0	<b>3</b>
Air Emissions	2	0	0	0	0	<b>2</b>
NEPA	0	0	2	0	0	<b>2</b>
Program Mgmt	0	0	0	1	1	<b>2</b>
Natural Resources	0	0	0	0	1	<b>1</b>
Environmental Noise	0	0	1	0	0	<b>1</b>
Pollution Prevention	0	0	0	0	1	<b>1</b>
Storage Tank	0	0	1	0	0	<b>1</b>
<b>Total Findings</b>	<b>29</b>	<b>0</b>	<b>34</b>	<b>13</b>	<b>6</b>	<b>82</b>

*Compare FY09  
95 Total findings  
41 Class 1*

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# ***Environmental Awards***

- MCB Hawaii
  - 2014 Secretary of Defense Environmental Award for Natural Resources Conservation, Small Installation
  
- MCB Camp S. D. Butler
  - 2014 Secretary of Defense Meritorious Achievement in Natural Resources Conservation, Individual/Team
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# *How Commanders Can Help*

- Communicate Environmental Policy
- Support FY15 Objectives and Targets and working groups
- Emphasize the following to your units:
  - Minimize use of hazardous materials
  - Maintain clean, well managed hazardous waste accumulation areas
  - Clean small spills quickly; call 911 for large spills
  - Properly dispose of all waste prior to deployment
  - Support recycling program in living and work areas, especially in barracks
  - Conserve energy & water at work and barracks
- Maintain close contact with your camp/station environmental staff



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# ***Environmental Directors/Coordinators***

- **MCB Hawaii -** <sup>(b) (6)</sup>
- **MCAS Iwakuni -** <sup>(b) (6)</sup>
- **CATC Camp Fuji –** <sup>(b) (6)</sup>  
<sup>(b) (6)</sup>
- **Camp Mujuk –** <sup>(b) (6)</sup>
- **MCAS Futenma –** <sup>(b) (6)</sup>
- **Camp Kinser –** <sup>(b) (6)</sup>  
<sup>(b) (6)</sup>
- **Camp Foster/Lester** <sup>(b) (6)</sup>  
<sup>(b) (6)</sup>
- **Camp Hansen/Courtney/Ie Shima** <sup>(b) (6)</sup>  
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- **Camp Schwab/JWTC –** <sup>(b) (6)</sup>

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# Questions



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# ***BACKUP SLIDES***





# *Spill Response Requirements*

- Japan Environmental Governing Standards
  - Submit USFJ Form 50 Spill Report for reportable spills
- MCO P5090.2A
  - Contact MCICOM for releases that result in serious environmental harm
- MCIPACO 5090.4
  - Reporting procedures for MCIPAC installations
- III MEF/MCIPACO 5090.1A
  - Tenant commands will comply with MCB Butler EMS Procedures (EMSP)
- EMSP 11.1 Spill Prevention and Response Plan
  - Okinawa-specific plan detailing responsibilities
- EMSP 11.2 Spill Response and Notification Procedures
  - Required in all vehicles and posted in conspicuous location at all work centers where a spill could occur.
- Site Specific Spill Plans
  - Maintained at each site where significant spills could occur



# ***MCIPAC Spill Reporting***

- Okinawa – Environmental Officer, MCIPAC reports to USFJ
  - Per MCIPACO 5090.4, III MEF/MCIPACO 5090.1A, EMSP 11.1
- Japan/Korea – Installations report directly to USFJ/USFK, copy MCIPAC
  - Per MCIPACO 5090.4
- Hawaii – Notify local and federal agencies and MCIPAC concurrently
  - Per MCIPACO 5090.4
- All installations will notify MCICOM (when required) and MCIPAC concurrently
  - Per MCIPACO 5090.4



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# Okinawa Spill Data

## CY 2014

### SPILL DATA JAN - DEC 2014

	Total	Vehicle Spills	Boiler/ Generator Spills	Tank Spills	HAZMAT Transfer	Unknown	Contractor	Personnel Error
USFJ Reportable	23	14	1	2	1	3	1	1
Non Reportable	27	18	4	3				2

Of the 23 USFJ spills, two were over 10 gal with the largest 150 gal from driver error.

Of the 18 Non-reportable vehicle spills, 8 were from dry rotted hoses.

All the tank spills were caused from improper procedures used by personnel.

Personnel error caused a 50 and 100 gallon spill from improper procedures.

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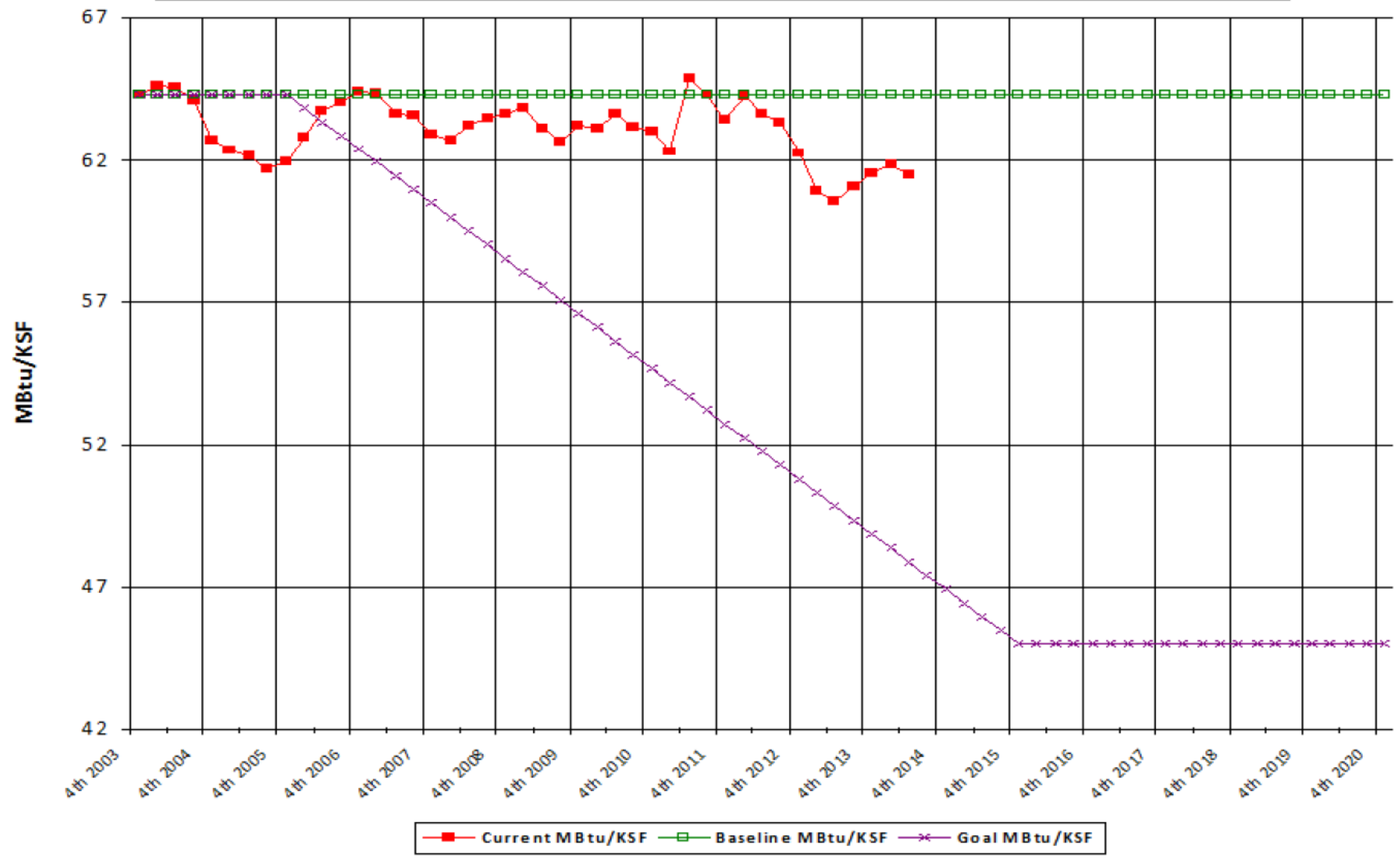
Current Progress: -4.44%

Baseline Year: 2003

Current Quarter Reduction Goal: -25.5%

Energy Reduction Progress

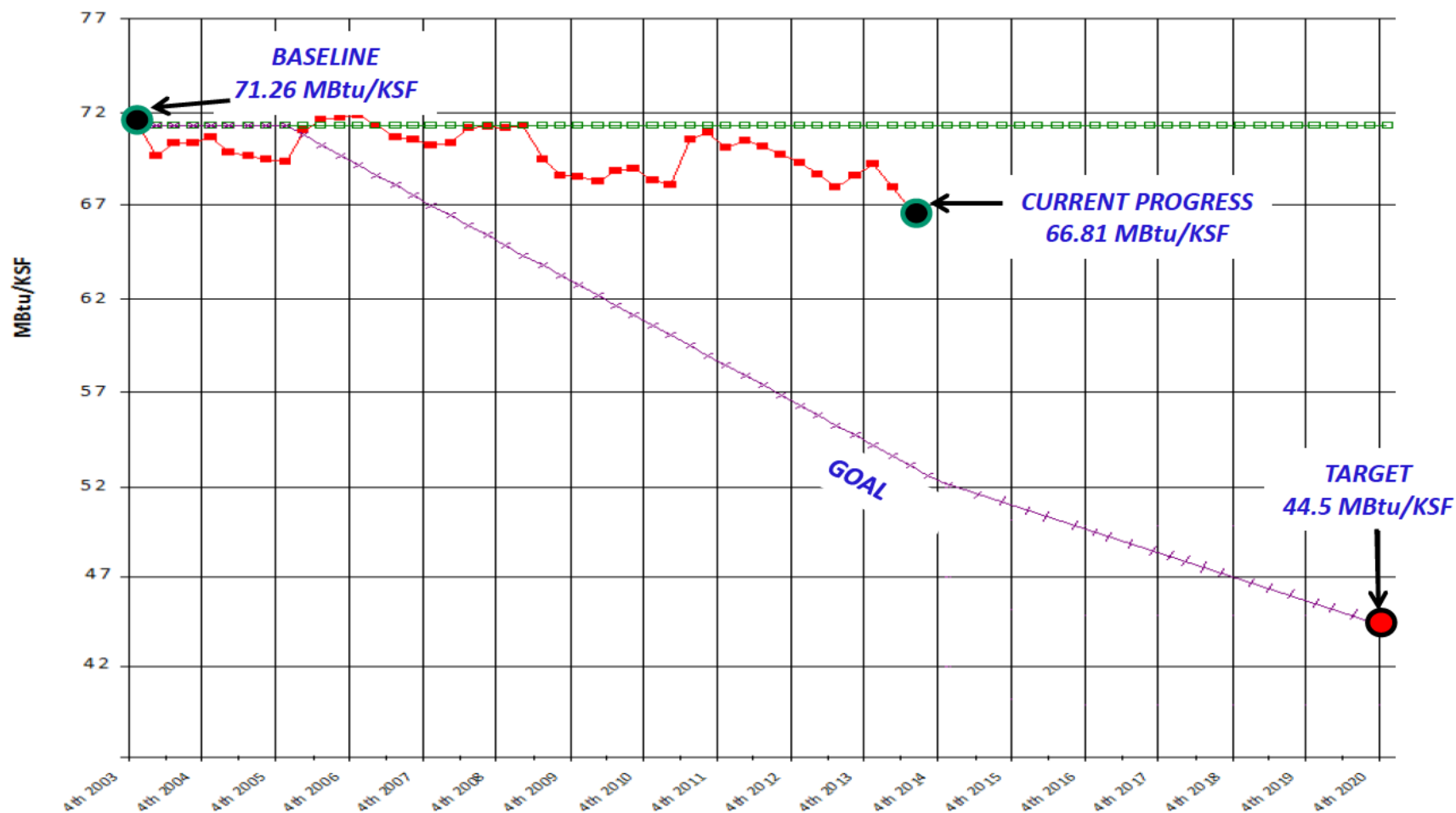
Current MBtu/KSF = 61.47      Baseline MBtu/KSF = 64.33      4th Quarter 2015 Reduction Goal: -30%





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# Energy Intensity Reduction Progress (MCIPAC-wide, '03 to present)



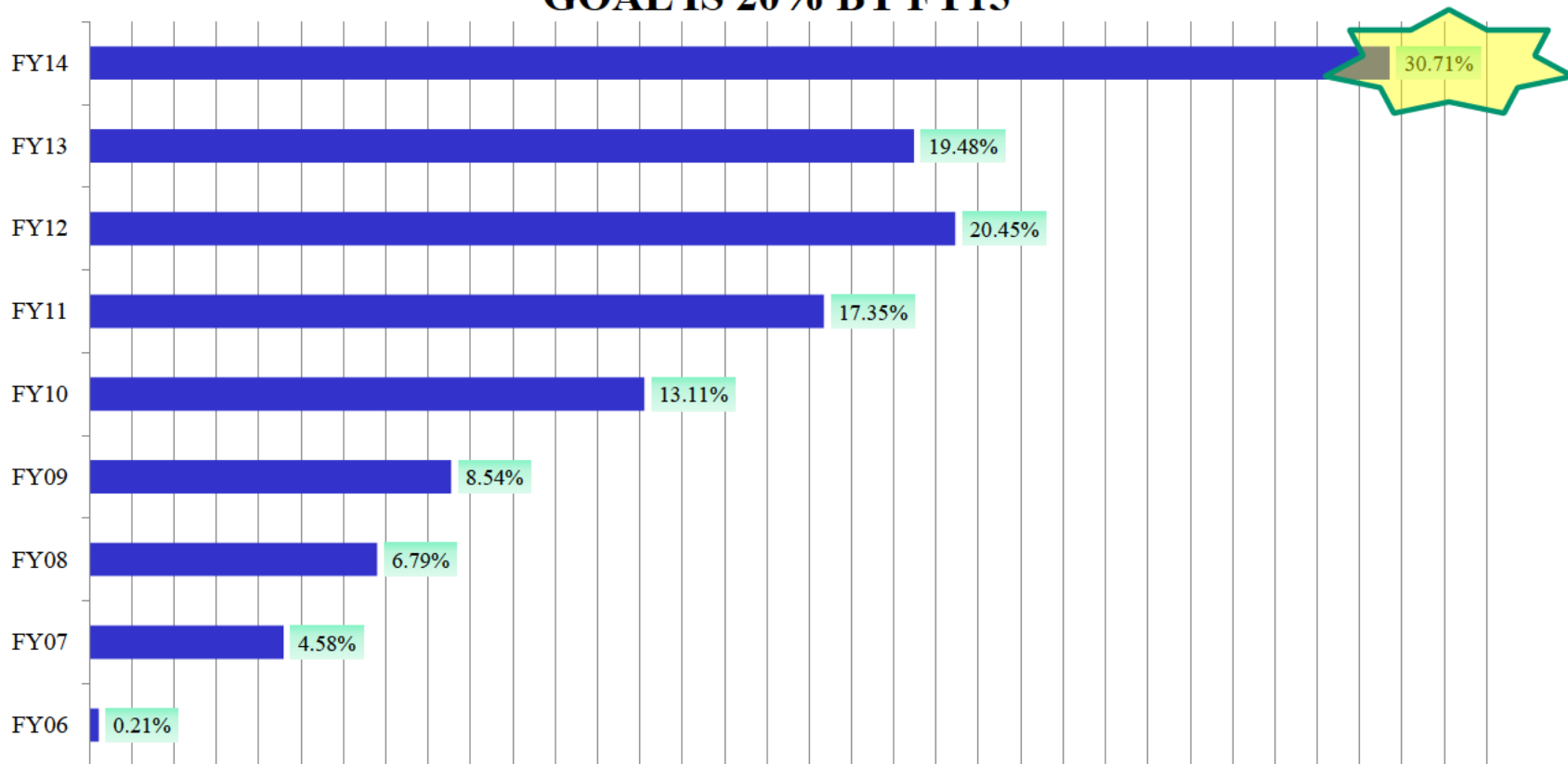
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# MCB BUTLER FUEL REDUCTION EFFORTS

**CUMULATIVE REDUCTION % PER FY SINCE FY05**  
**GOAL IS 20% BY FY15**



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# ***Energy Reduction Target***

## **Energy Intensity of Facilities Reduced by 30% from FY 2003 by FY 2015 and 37.5% by FY 2020**

The percent reduction relative to FY 2003 in the total fossil fuel-generated energy consumed by DoD facilities per gross square foot of total DoD building space. A facility is defined as per the Energy Independence and Security Act of 2007 to be any building, installation, structure, or other property owned or operated by, or constructed or manufactured and leased to, DoD. The term facility includes a group of facilities at a single location or multiple locations managed as an integrated operation, and contractor-operated facilities owned by DoD. It does not include any land or site for which the cost of utilities is not paid by the federal government.





# ***Vehicle Fuel Reduction Target***

**Use of Petroleum Products by Vehicle Fleets Reduced 30% from FY 2005 by FY 2020**

The percent reduction in petroleum product consumption by DoD non-tactical motor vehicle fleets relative to FY 2005. Only fleets numbering 20 motor vehicles or more are covered.



# ***Solid Waste Diversion Target***

## **50% of Non-Hazardous Solid Waste Diverted from the Waste Stream by 2015 and Thereafter Through 2020**

The percent of the total non-hazardous solid waste stream generated and collected by DoD facilities (by weight), without construction and demolition debris, that is directed away from the waste stream, for example by reuse, recycling, and/or composting.